RESULT LIST
23 results found in the Worldwide database for:
transaction in the title AND **relational** in the title or abstract
(Results are sorted by date of upload in database)

1 Real-time database update transaction with disconnected relational database clients
Inventor: WILMOT GERALD J (US) **Applicant:**
EC: G06F17/30B **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+1)
Publication info: **US2006010178** - 2006-01-12

2 SET-ORIENTED REAL-TIME DATA PROCESSING BASED ON TRANSACTION BOUNDARIES
Inventor: MUDUNURI GAUTUM H (US); TO RAYMOND G (US) **Applicant:** INFORMATICA CORP (US); MUDUNURI GAUTUM H (US); (+1)
EC: **IPC:** ***G06F17/00***; **G06F17/00**
Publication info: **WO2005060461** - 2005-07-07

3 AUTOMATIC GENERATION OF DIMENSIONAL MODEL FOR BUSINESS ANALYSIS FROM OBJECT MODEL FOR ONLINE TRANSACTION PROCESSING
Inventor: LO ALVIN; YEH ADAM **Applicant:** MICROSOFT CORP
EC: G06F17/30S1; G06F17/30S3 **IPC:** ***G06F9/44; G06F12/00; G06F17/30*** (+5)
Publication info: **JP2004280823** - 2004-10-07

4 Transaction execution system interface and enterprise system architecture thereof
Inventor: FRADKOV SERGEY (US); KHOMYKOV IGOR (US); (+3) **Applicant:**
EC: G06Q20/00K2B; G06Q20/00K3A; (+2) **IPC:** ***G06Q20/00; G06Q30/00; G07F7/08*** (+4)
Publication info: **US2004024610** - 2004-02-05

5 Techniques for increasing the usefulness of transaction logs
Inventor: KUNDU JOYDIP (US); WANG QINQIN (US); (+1) **Applicant:** ORACLE INT CORP (US)
EC: **IPC:** ***G06F7/00***; **G06F7/00**; (IPC1-7): G06F7/00
Publication info: **US2004210577** - 2004-10-21

6 Commercial transaction management system and method for same
Inventor: TAKEMOTO KAZUO (JP) **Applicant:** HITACHI LTD (US)
EC: G06Q10/00E **IPC:** ***G06Q10/00***; **G06Q10/00**; (IPC1-7): G06F17/60
Publication info: **US2003018493** - 2003-01-23

7 Relationship-based commerical transaction system and method
Inventor: EVERS E MARK (US); GRAY ROBERT G (US); (+1) **Applicant:**
EC: G06Q30/00C **IPC:** ***G06Q30/00***; **G06Q30/00**; (IPC1-7): G06F17/60
Publication info: **US2002065787** - 2002-05-30

8 Method and system for high performance transaction processing using a relational database management system
Inventor: CAMERON DUCAN (US); HUSTED JOHN (US); (+3) **Applicant:**
EC: G06F17/30B; G06F17/30S1 **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2002174136** - 2002-11-21

9 System and method for managing financial transaction information
Inventor: CAROTHERS KEVIN (US); KHILKEVICH SIMON (US); (+2) **Applicant:**
EC: G06F17/30B2; G06F17/30S1; (+1) **IPC:** ***G06F17/30; G06Q40/00***; **G06F17/30** (+2)
Publication info: **US2002016771** - 2002-02-07

10 METHOD AND SYSTEM FOR MANAGING FINANCIAL TRANSACTION INFORMATION

Inventor: CAROTHERS KEVIN; KIHLKEVICH SIMON; (+2)

Applicant: CITICORP DEV CT INC

EC: G06F17/30B2; G06F17/30S1; (+1)

IPC: ***G06F17/30; G06Q40/00***; **G06F17/30** (+2)

Publication info: **JP2001250025** - 2001-09-14

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
12 results found in the Worldwide database for:
update in the title AND **partition** in the title or abstract
(Results are sorted by date of upload in database)

1 **Adaptive system to allow multiple update and correction sessions on an optical data storage card**
Inventor: KING FRANCIS K (US); LIU JEFFREY F (US) **Applicant:** DCARD INC
EC: **IPC:** ***G11B21/08; G11B19/02***; **G11B19/02** (+1)
Publication info: **US2006039246** - 2006-02-23

2 **FAIL-SAFE METHOD FOR APPLYING CUSTOM SOFTWARE IMAGE UPDATE TO NONVOLATILE STORAGE**
Inventor: ROGERS ANDREW M; GLAUM JEFFERY D; (+5) **Applicant:** MICROSOFT CORP
EC: G06F9/445N **IPC:** ***G06F9/445; G06F11/14; G06F15/177*** (+4)
Publication info: **JP2005196747** - 2005-07-21

3 **Software update method, apparatus and system**
Inventor: FRAZER MARK (CA); RIVARD PHILIPPE A (CA) **Applicant:**
EC: G06F9/445E **IPC:** ***G06F9/445***; **G06F9/445**; (IPC1-7): H04L5/00
Publication info: **US2005055595** - 2005-03-10

4 **METHOD AND APPARATUS TO SIMULTANEOUSLY UPDATE AND ACTIVATE PARTITION FIRMWARE IN LOGICAL PARTITIONED DATA PROCESSING SYSTEM**
Inventor: HARRINGTON BRADLEY RYAN; LINAM STEPHEN DALE; (+1) **Applicant:** IBM
EC: **IPC:** ***G06F9/00; G06F9/46; G06F11/00*** (+5)
Publication info: **JP2004318880** - 2004-11-11

5 **Firmware update mechanism in a multi-node data processing system**
Inventor: ALMEIDA JASON ROBERT (US); GIBSON GREGG KENT (US); (+3) **Applicant:** IBM (US)
EC: H04L29/08A7 **IPC:** ***H04L29/08***; **H04L29/08**; (IPC1-7): G06F9/46 (+1)
Publication info: **US2004205779** - 2004-10-14

6 **SOFTWARE UPDATE METHOD, APPARATUS AND SYSTEM**
Inventor: RIVARD PHILIPPE A (CA); FRAZER MARK (CA) **Applicant:** SOMA NETWORKS INC (US)
EC: G06F9/445E **IPC:** ***G06F9/445***; **G06F9/445**; (IPC1-7): G06F9/445
Publication info: **CA2498648** - 2003-03-27

7 **MECHANISM FOR SAFELY PERFORMING SYSTEM FIRMWARE UPDATE IN LOGICALLY PARTITIONED (LPAR) MACHINE**
Inventor: LEE VAN HOA; NULU SAYILEELA **Applicant:** IBM
EC: G06F9/445B; G06F9/445E **IPC:** ***G06F9/445***; **G06F9/445**; (IPC1-7): G06F9/46 (+1)
Publication info: **JP2002268900** - 2002-09-20

8 **State copying method for software update**
Inventor: GARD BENGT ERIK INGEMAR (SE); KLING LARS-OERJAN (SE); (+1) **Applicant:** ERICSSON TELEFON AB L M (SE)
EC: G06F9/445R; G06F11/14A8E; (+1) **IPC:** ***G06F9/445; G06F11/14; G11C29/00*** (+4)
Publication info: **US6463584** - 2002-10-08

9 **Disturbance free update of data**
Inventor: GARD BENGT ERIK INGEMAR (SE); KLING LARS-OERJAN (SE); (+1) **Applicant:** ERICSSON TELEFON AB L M (SE)
EC: G06F9/445R **IPC:** ***G06F9/445***; **G06F9/445**; (IPC1-7): G06F9/455

Publication info: **US6347396** - 2002-02-12

10 System for physical storage architecture providing simultaneous access to common file by storing update data in update partitions and merging desired updates into common partition

Inventor: WLASCHIN SCOTT (US) Applicant: DEX INFORMATION SYSTEMS INC (US)

EC: G06F17/30N IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/32

Publication info: **US5850522** - 1998-12-15

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
9 results found in the Worldwide database for:
aggregation in the title AND **partition** in the title or abstract
(Results are sorted by date of upload in database)

1 AGGREGATION PART STRUCTURE OF EXHAUST MANIFOLD
Inventor: BAN KUNIKAZU
Applicant: CALSONIC KANSEI CORP
EC:
IPC: ***F01N7/10; F01N7/18***; **F01N7/10** (+3)
Publication info: **JP2004245156** - 2004-09-02

2 AGGREGATION METHOD
Inventor: WAKIMURA YOSHIRO
Applicant: WAKIMURA YOSHIRO
EC:
IPC: ***B01D21/02; C02F11/14***; *B01D21/01* (+6)
Publication info: **JP2002079004** - 2002-03-19

3 Top-down control of multiple layer aggregation logical volume management data and boot record
Inventor: RAFANELLO BENEDICT MICHAEL (US); PELOQUIN MARK A (US); (+2)
Applicant: IBM (US)
EC:
IPC: ***G06F12/00***; **G06F12/00**; (IPC1-7): G06F12/00
Publication info: **US6711591** - 2004-03-23

4 Control of multiple layer aggregation logical volume management data and boot record
Inventor: RAFANELLO BENEDICT MICHAEL (US); PELOQUIN MARK A (US); (+2)
Applicant: IBM (US)
EC:
IPC: ***G06F12/00***; **G06F12/00**; (IPC1-7): G06F12/00
Publication info: **US6636871** - 2003-10-21

5 AGGREGATION MEMBER AND ITS PRODUCTION
Inventor: KUBOTA HIROSHI
Applicant: EAGLE IND CO LTD
EC:
IPC: ***B29C33/42; B29C39/02; B29C45/14*** (+7)
Publication info: **JP2001071331** - 2001-03-21

6 AGGREGATION-SEPARATION
Inventor: FUKASE TETSURO; YASUI HIDENARI
Applicant: KURITA WATER IND LTD
EC:
IPC: ***B01D24/00; C02F1/52***; **B01D24/00** (+3)
Publication info: **JP11047757** - 1999-02-23

7 Relational database system and method for query processing using early aggregation
Inventor: LARSON PER-AAKE (US)
Applicant: MICROSOFT CORP (US)
EC: G06F17/30S1R
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6115705** - 2000-09-05

8 ACCELERATOR FOR BLOOD PLATELET AGGREGATION INHIBITION AND DISSOCIATION DERIVED FROM BLOOD AND ITS PREPARATION
Inventor: FUNAHARA YOSHINORI
Applicant: MITSUBISHI CHEM IND; DAIICHI SEIYAKU CO
EC:
IPC: ***A61K35/16***; **A61K35/16**; (IPC1-7): A61K35/16
Publication info: **JP56079621** - 1981-06-30

9 Improvements in and relating to the manufacture of sheets by aggregation of flake materials
Inventor:
Applicant: GEN ELECTRIC
EC: B28D1/32B; D21H13/44
IPC: ***B28D1/32; D21H13/44***; **B28D1/00** (+1)
Publication info: **GB153612** - 1920-11-18

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
15 results found in the Worldwide database for:
aggregation in the title AND **tables** in the title or abstract
(Results are sorted by date of upload in database)

1 PORT AGGREGATION FOR FIBRE CHANNEL INTERFACES
Inventor: GHOSH KALYAN (US); JAIN PRAVEEN (US); (+3)
Applicant: CISCO TECH IND (US); GHOSH KALYAN (US); (+4)
EC:
IPC: (IPC1-7): H04L12/00
Publication info: **WO2006023336** - 2006-03-02

2 Real-time aggregation of data within an enterprise planning environment
Inventor: THIER ADAM (US); SANDLES JON M (GB); (+2)
Applicant: ADAYTUM INC (US)
EC: G06F17/30S1
IPC: ***G06F7/00; G06F17/00; G06F17/30*** (+4)
Publication info: **US2004236738** - 2004-11-25

3 Database management system having data aggregation module integrated therein
Inventor: BAKALASH REUVEN (IL); SHAKED GUY (IL); (+1)
Applicant:
EC: G06F17/30T
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2005055329** - 2005-03-10

4 Method and system for managing aggregation data structures
Inventor: BARSNESS ERIC L (US); BEUCH DANIEL E (US); (+2)
Applicant: IBM (US)
EC:
IPC: ***G06F17/00***; **G06F17/00**; (IPC1-7): G06F17/00
Publication info: **US2005192988** - 2005-09-01

5 TOPOLOGY AGGREGATION FOR HIERARCHICAL ROUTING
Inventor: BAUGHAN KEVIN (GB); CONSTANTINOU CONSTANTINOS CHRI (GB); (+2)
Applicant: IDEAS NETWORK LTD (GB); BAUGHAN KEVIN (GB); (+3)
EC: H04L12/56C1; H04L12/56C3
IPC: ***H04L12/56***; **H04L12/56**; (IPC1-7): H04L12/56
Publication info: **WO2004086692** - 2004-10-07

6 REAL-TIME AGGREGATION OF DATA WITHIN AN ENTERPRISE PLANNING ENVIRONMENT
Inventor: THIER ADAM; PEARSON GEORGE DUNCAN; (+1)
Applicant: ADAYTUM INC (US)
EC: G06F17/30S1
IPC: ***G06F7/00; G06F17/00; G06F17/30*** (+5)
Publication info: **WO2004031940** - 2004-04-15

7 System and method for transforming queries using window aggregation
Inventor: CHENG QI (CA); LIU LINQI (CA); (+3)
Applicant: IBM (US)
EC: G06F17/30H6
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2004153448** - 2004-08-05

8 Matching groupings, re-aggregation avoidance and comprehensive aggregate function derivation rules in query rewrites using materialized views
Inventor: ZHANG GUOGEN (US); LI RUIPING (US); (+2)
Applicant: IBM (US)
EC: G06F17/30H6; G06F17/30S1R
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30 (+1)
Publication info: **US2004122814** - 2004-06-24

9 Database management system having a data aggregation module integrated therein
Inventor: BAKALASH REUVEN (IL); SHAKED GUY (IL);
Applicant: HYPERROLL ISRAEL LTD (US)

(+1)
EC: G06F17/30T IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00 (+1)

Publication info: **US2002129032** - 2002-09-12

10 SCALABLE AND PROGRAMMABLE QUERY DISTRIBUTION AND COLLECTION IN A NETWORK OF QUERYABLE DEVICES

Inventor: THOMPSON NICHOLAS; WELCH WILLIAM; (+3) Applicant: FASTFORWARD NETWORKS INC (US)

EC: G06F17/30H; G06F17/30N IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **WO0205141** - 2002-01-17

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
19 results found in the Worldwide database for:
aggregation in the title AND **databases** in the title or abstract
(Results are sorted by date of upload in database)

1 Statistics aggregation for policy-based network
Inventor: SHANUMGAM UDAYAKUMAR (US); IYER MAHADEVAN (US); (+2)
Applicant: CIT ALCATEL (FR)
EC:
IPC: ***G06F13/00***; **G06F13/00**
Publication info: **US7032022** - 2006-04-18

2 ECOSYSTEM METHOD OF AGGREGATION AND SEARCH AND RELATED TECHNIQUES
Inventor: SIFRY DAVID L (US)
Applicant: TECHNORATI INC (US); SIFRY DAVID L (US)
EC:
IPC: ***G06F17/30***; **G06F17/30**
Publication info: **WO2006004680** - 2006-01-12

3 SYSTEM AND METHOD FOR THE AGGREGATION AND MONITORING OF MULTIMEDIA DATA THAT ARE STORED IN A DECENTRALIZED MANNER
Inventor: ANDRIS DANIEL (CH); KELLER LEO (CH); (+1)
Applicant: SWISS REINSURANCE COMPANY (CH); ANDRIS DANIEL (CH); (+2)
EC: G06F17/30W1
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **WO2005059772** - 2005-06-30

4 Stand-alone cartridge-style data aggregation server and method of and system for managing multi-dimensional databases using the same
Inventor: BAKALASH REUVEN (IL); SHAKED GUY (IL); (+1)
Applicant:
EC: G06F17/30B; G06F17/30T
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/00
Publication info: **US2005060326** - 2005-03-17

5 Data aggregation server for managing a multi-dimensional database and database management system having data aggregation server integrated therein
Inventor: BAKALASH REUVEN (IL); SHAKED GUY (IL); (+1)
Applicant:
EC: G06F17/30T
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2005065940** - 2005-03-24

6 System and method for the aggregation of place information in a multi-server system
Inventor: ESTRADA MIGUEL A (US); SHALABI SAMI M (US); (+1)
Applicant: IBM (US)
EC:
IPC: ***G06F7/00; G06F17/00***; **G06F7/00** (+2)
Publication info: **US2004139109** - 2004-07-15

7 Customer relationship management (CRM) system with integrated data aggregation engine
Inventor: BAKALASH REUVEN (IL); SHAKED GUY (IL); (+1)
Applicant:
EC: G06F17/30T
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F12/00
Publication info: **US2003217079** - 2003-11-20

8 Enterprise-wide data-warehouse with integrated data aggregation engine
Inventor: BAKALASH REUVEN (IL); SHAKED GUY (IL); (+1)
Applicant:
EC: G06F17/30T
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F12/00
Publication info: **US2003229652** - 2003-12-11

9 Enterprise-wide resource planning (ERP) system with integrated data

aggregation engine
Inventor: BAKALASH REUVEN (IL); SHAKED GUY (IL); (+1) **Applicant:**
EC: G06F17/30T **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2003225736** - 2003-12-04

10 **Stand-alone cartridge style data aggregation server and method of and system for managing multi-dimensional databases using the same**
Inventor: BAKALASH REUVEN (IL); SHAKED GUY (IL); (+1) **Applicant:**
EC: G06F17/30B; G06F17/30T **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US2003018642** - 2003-01-23

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RESULT LIST
15 results found in the Worldwide database for:
aggregation in the title AND **tables** in the title or abstract
(Results are sorted by date of upload in database)

11 Storage management system with file aggregation supporting multiple aggregated file counterparts
Inventor: CANNON DAVID MAXWELL (US) **Applicant:** IBM (US)
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6041334** - 2000-03-21

12 Method for aggregation of a graph using fourth generation structured query language (SQL)
Inventor: SCHULTZ THOMAS ALAN (US) **Applicant:** LUCENT TECHNOLOGIES INC (US)
EC: G06F17/30G3; G06F17/30S1R **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6006233** - 1999-12-21

13 Storage management system with file aggregation supporting multiple aggregated file counterparts
Inventor: CANNON DAVID MAXWELL (US) **Applicant:** IBM (US)
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5983239** - 1999-11-09

14 Method and system for generating database queries containing multiple levels of aggregation
Inventor: REITER ALLEN (IL); HECHT STEPHEN CHARLES (US); (+3) **Applicant:** MICROSOFT CORP (US)
EC: G06F17/30H **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5713020** - 1998-01-27

15 Process of controlling molecular aggregation in the polymerization of vinyl esters
Inventor: **Applicant:** CANADIAN ELECTRO PRODUCTS COMP
EC: C08F18/04 **IPC:** ***C08F18/04***; **C08F18/00**
Publication info: **GB387353** - 1933-01-30

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
Approximately **49** results found in the Worldwide database for:
multiple in the title AND **aggregation** in the title or abstract
(Results are sorted by date of upload in database)

1 **Systems and methods to relate multiple unit level datasets without retention of unit identifiable information**
Inventor: BLEGEN JOHN L (US); ROLFE ANDREW R (US) **Applicant:**
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US2006085454** - 2006-04-20

2 **NICKEL MANGANESE COBALT BASED MULTIPLE OXIDE, LAMELLAR LITHIUM NICKEL MANGANESE COBALT BASED MULTIPLE OXIDE, LITHIUM SECONDARY CELL POSITIVE ELECTRODE MATERIAL, POSITIVE ELECTRODE FOR LITHIUM SECONDARY CELL AND LITHIUM SECONDARY CELL USING THE SAME**
Inventor: SHIZUKA KENJI **Applicant:** MITSUBISHI CHEM CORP
EC: **IPC:** (IPC1-7): C01G53/00; H01M4/02; H01M4/58 (+1)
Publication info: **JP2005336004** - 2005-12-08

3 **METHOD AND APPARATUS FOR PRODUCING MULTIPLE OXIDE POWDER**
Inventor: TAKESHIMA SHINICHI **Applicant:** TOYOTA MOTOR CORP
EC: C01B13/32P **IPC:** (IPC1-7): C01G25/00; C01B13/32
Publication info: **JP2005320185** - 2005-11-17

4 **MULTIPLE RECEIVER AGGREGATION**
Inventor: QIAN LU **Applicant:** CISCO TECH IND (US)
EC: **IPC:** ***H04L12/28***; **H04L12/28**; (IPC1-7): H04L12/28
Publication info: **WO2005114915** - 2005-12-01

5 **MULTIPLE RECEIVER AGGREGATION (MRA) WITH DIFFERENT DATA RATES FOR IEEE 802.11N**
Inventor: OTAL BEGONYA (DE); HABETHA JOERG (DE); (+3) **Applicant:** KONINKL PHILIPS ELECTRONICS NV (NL); OTAL BEGONYA (DE); (+4)
EC: **IPC:** ***H04L12/28; H04L29/06***; **H04L12/28** (+3)
Publication info: **WO2005112355** - 2005-11-24

6 **Aggregation of multiple headless computer entities into a single computer entity group**
Inventor: GOLD STEPHEN (GB); CAMBLE PETER T (GB) **Applicant:** HEWLETT PACKARD DEVELOPMENT CO (US)
EC: **IPC:** ***G06F15/16; G06F15/177***; **G06F15/16** (+2)
Publication info: **US2005193080** - 2005-09-01

7 **SYSTEM AND METHOD FOR AGGREGATING MULTIPLE RADIO INTERFACES INTO A SINGLE LOGICAL BRIDGE INTERFACE**
Inventor: MEIER ROBERT C **Applicant:** CISCO TECH IND (US)
EC: **IPC:** ***H04Q7/24***; **H04Q7/24**
Publication info: **WO2005094487** - 2005-10-13

8 **Deploying Multiple E-Commerce Systems in a Single Computing Plaform**
Inventor: CHAN VICTOR (CA); HUBBARD MARK W (CA); (+2) **Applicant:** IBM (US)
EC: **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2005234734** - 2005-10-20

9 **SYSTEM AND METHOD FOR AGGREGATION AND ANALYSIS OF INFORMATION FROM MULTIPLE DISPARATE SOURCES WHILE ASSURING SOURCE AND RECORD ANONYMITY USING AN**

EXCHANGE HUB

Inventor: GOODERMOTE DEAN (US); BLOOM TOBY (US); (+1)

EC:

Applicant: GRID ANALYTICS LLC (US); GOODERMOTE DEAN (US); (+2)

IPC: ***G06F21/00***; **G06F21/00**; (IPC1-7): G06F1/00

Publication info: **WO2005091138** - 2005-09-29

10 LEVERAGING INFORMATIONAL ASSETS ACROSS MULTIPLE BUSINESS UNITS

Inventor: RHYNE JOSEPH C (US); HALL STEPHEN (US); (+3)

EC:

Applicant: THOMSON GLOBAL RESOURCES AG (US); RHYNE JOSEPH C (US); (+4)

IPC: **G06F**; (IPC1-7): G06F

Publication info: **WO2005029275** - 2005-03-31

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☐ **18. Incremental updates on mobile datawarehousing using optimized hierarc new aggregation operators**
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 Zhao, J.; Hui Ma;
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Markl, V.; Ramsak, F.; Bayer, R.;
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1 Query evaluation techniques for large databases
Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

2 Techniques for Structuring Database Records
Salvatore T. March
March 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 1
Publisher: ACM Press
Full text available: pdf(3.02 MB) Additional Information: full citation, references, citings, index terms

3 Final report of the ANSI/X3/SPARC DBS-SG relational database task group
July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4
Publisher: ACM Press
Full text available: pdf(4.69 MB) Additional Information: full citation

4 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff

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1 Heuristic optimization of OLAP queries in multidimensionally hierarchically clustered databases
Dimitri Theodoratos, Aris Tsois
November 2001 **Proceedings of the 4th ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, citings, index terms

On-line analytical processing (OLAP) is a technology that encompasses applications requiring a multidimensional and hierarchical view of data. OLAP applications often require fast response time to complex grouping/aggregation queries on enormous quantities of data. Commercial relational database management systems use mainly multiple one-dimensional indexes to process OLAP queries that restrict multiple dimensions. However, in many cases, multidimensional access methods outperform one-dimensiona ...

2 Optimizing multiple dimensional queries simultaneously in multidimensional databases
Weifa Liang, Maria E. Orlowska, Jeffrey X. Yu
February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(269.57 KB) Additional Information: full citation, abstract, citings, index terms

Some significant progress related to multidimensional data analysis has been achieved in the past few years, including the design of fast algorithms for computing datacubes, selecting some precomputed group-bys to materialize, and designing efficient storage structures for multidimensional data. However, little work has been carried out on multidimensional query optimization issues. Particularly the response time (or evaluation cost) for answering several related dimensional queries simultaneous ...

Keywords: Data warehousing, MDDBs, Multiple dimensional query optimization, OLAP, Query modeling

3 Online analytic processing (OLAP): QC-trees: an efficient summary structure for semantic OLAP
Laks V. S. Lakshmanan, Jian Pei, Yan Zhao

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press

Full text available: pdf(375.81 KB) Additional Information: full citation, abstract, references, citings, index terms

Recently, a technique called quotient cube was proposed as a summary structure for a data cube that preserves its semantics, with applications for online exploration and visualization. The authors showed that a quotient cube can be constructed very efficiently and it leads to a significant reduction in the cube size. While it is an interesting proposal, that paper leaves many issues unaddressed. Firstly, a direct representation of a quotient cube is not as compact as possible and thus still wast ...

4 An overview of data warehousing and OLAP technology

Surajit Chaudhuri, Umeshwar Dayal
March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1
Publisher: ACM Press

Full text available: pdf(101.60 KB) Additional Information: full citation, abstract, citings, index terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional on-line transaction processing applications. This paper provides an overview ...

5 Extending complex ad-hoc OLAP

Theodore Johnson, Damianos Chatziantoniou
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**
Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

Large scale data analysis and mining activities require sophisticated information extraction queries. Many queries require complex aggregation, and many of these aggregates are non-distributive. Conventional solutions to this problem involve defining User Defined Aggregate Functions (UDAFs). However, the use of UDAFs entails several problems. Defining a new UDAF can be a significant burden for the user, and optimizing queries involving UDAFs is difficult because of the "black box&rdqu ...

6 Simultaneous optimization and evaluation of multiple dimensional queries

Yihong Zhao, Prasad M. Deshpande, Jeffrey F. Naughton, Amit Shukla
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2
Publisher: ACM Press

Full text available: pdf(1.52 MB) Additional Information: full citation, abstract, references, citings, index terms

Database researchers have made significant progress on several research issues related to multidimensional data analysis, including the development of fast cubing algorithms, efficient schemes for creating and maintaining precomputed group-bys, and the design of efficient storage structures for multidimensional data. However, to date there has been little or no work on multidimensional query optimization. Recently, Microsoft has proposed "OLE DB for OLAP" as a standard multidime ...

7 Query processing: Spatial hierarchy and OLAP-favored search in spatial data

warehouse
Fangyan Rao, Long Zhang, Xiu Lan Yu, Ying Li, Ying Chen
November 2003 **Proceedings of the 6th ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(197.48 KB) Additional Information: full citation, abstract, references, index terms

Data warehouse and Online Analytical Processing(OLAP) play a key role in business intelligent systems. With the increasing amount of spatial data stored in business database, how to utilize these spatial information to get insight into business data from the geo-spatial point of view is becoming an important issue of data warehouse and OLAP. However, traditional data warehouse and OLAP tools can not fully exploit spatial data in coordinates because multi-dimensional spatial data does not have im ...

Keywords: spatial OLAP, spatial data warehouse, spatial hierarchy

8 Maintenance of data cubes and summary tables in a warehouse
Inderpal Singh Mumick, Dallan Quass, Barinderpal Singh Mumick
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2
Publisher: ACM Press
Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings, index terms

Data warehouses contain large amounts of information, often collected from a variety of independent sources. Decision-support functions in a warehouse, such as on-line analytical processing (OLAP), involve hundreds of complex aggregate queries over large volumes of data. It is not feasible to compute these queries by scanning the data sets each time. Warehouse applications therefore build a large number of summary tables, or materialized aggregate views, to ...

9 Compressed data cubes for OLAP aggregate query approximation on continuous dimensions
Jayavel Shanmugasundaram, Usama Fayyad, P. S. Bradley
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press
Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, approximate query answering, clustering, data cubes, data mining, density estimation

10 Towards on-line analytical mining in large databases
Jiawei Han
March 1998 **ACM SIGMOD Record**, Volume 27 Issue 1
Publisher: ACM Press
Full text available: pdf(387.04 KB) Additional Information: full citation, abstract, citings, index terms

Great efforts have been paid in the Intelligent Database Systems Research Lab for the research and development of efficient data mining methods and construction of on-line analytical data mining systems.Our work has been focused on the integration of data mining and OLAP technologies and the development of scalable, integrated, and multiple data mining functions. A data mining system, DBMiner, has been developed for interactive

mining of multiple-level knowledge in large relational databases and ...

11 Towards OLAP security design — survey and research issues

Torsten Priebe, Günther Pernul
November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(107.83 KB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, access control, data warehouse, design, security

12 Application of intelligent agent technology for managerial data analysis and mining

Ranjit Bose, Vijayan Sugumaran
January 1999 **ACM SIGMIS Database**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, index terms

Data analysis and mining technologies help bring business intelligence into organizational decision support systems (DSS). While a myriad of data analysis and mining technologies are commercially available today, organizations are seeing a growing gap between powerful storage (data warehouse) systems and the business users' ability to analyze and act effectively on the information they contain. We contend that to narrow this gap effectively, a data analysis and mining environment is needed that ...

Keywords: agent-based design, data mining, data warehouse, decision support systems, intelligent agents, multidimensional analysis, prototype implementation, statistical analysis, visualization

13 Extending OLAP querying to external object databases

Torben Bach Pedersen, Arie Shoshani, Junmin Gu, Christian S. Jensen
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(168.32 KB) Additional Information: full citation, references, citings, index terms

14 OLAP: An analysis of additivity in OLAP systems

John Horner, Il-Yeol Song, Peter P. Chen
November 2004 **Proceedings of the 7th ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(322.41 KB) Additional Information: full citation, abstract, references, index terms

Accurate summary data is of paramount concern in data warehouse systems; however, there have been few attempts to completely characterize the ability to summarize measures. The sum operator is the typical aggregate operator for summarizing the large amount of data in these systems. We look to uncover and characterize potentially inaccurate summaries resulting from aggregating measures using the sum operator. We discuss the effect of classification hierarchies, and non-, semi-, and fully- addi ...

Keywords: OLAP, additivity, data warehouse, metadata, summarization

15 Features to consider in a data warehousing system

Narasimhaiah Gorla
November 2003 **Communications of the ACM**, Volume 46 Issue 11
Publisher: ACM Press
Full text available: pdf(107.12 KB) html(27.43 KB) Additional Information: full citation, abstract, references, index terms

Evaluating and assessing the important distinctions between data processing capability and data currency.

16 Characterization of hierarchies and some operators in OLAP environment

Elaheh Pourabbas, Maurizio Rafanelli
November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(774.36 KB) Additional Information: full citation, abstract, references, citings, index terms

Recently numerous proposals for modelling and querying Multidimensional Databases (MDDB) are proposed. Among the still open problems there is a rigorous classification of the different types of hierarchies. In this paper we propose and discuss some different types of hierarchies within a single dimension of a cube. These hierarchies divide in different levels of aggregation a single dimension. Depending on them, we discuss the characterization of some OLAP operators which refer to hierarchi ...

17 Incorporating contextual information in recommender systems using a multidimensional approach

Gediminas Adomavicius, Ramesh Sankaranarayanan, Shahana Sen, Alexander Tuzhilin
January 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: pdf(423.91 KB) Additional Information: full citation, abstract, references, index terms

The article presents a multidimensional (MD) approach to recommender systems that can provide recommendations based on additional contextual information besides the typical information on users and items used in most of the current recommender systems. This approach supports multiple dimensions, profiling information, and hierarchical aggregation of recommendations. The article also presents a multidimensional rating estimation method capable of selecting two-dimensional segments of ratings pert ...

Keywords: Recommender systems, collaborative filtering, context-aware recommender systems, multidimensional data models, multidimensional recommender systems, personalization, rating estimation

18 Approaches to the development of multi-dimensional databases: lessons from four case studies

Helen Hasan, Peter Hyland, David Dodds, Raja Veeraraghavan
June 2000 **ACM SIGMIS Database**, Volume 31 Issue 3
Publisher: ACM Press
Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, index terms

The paper explores the manner in which an organization's data and information can be effectively utilized to assist an organization to achieve its business objectives. With the increased popularity of data warehousing and executive information systems, there is renewed interest by IT practitioners in data models and database structures, in particular

multi-dimensional forms, which have joined their relational counterparts as legitimate tools for extracting vital business information from an orga ...

Keywords: OLAP, case study, executive information systems, management, methodology, multi-dimensional database, organization, relational database

19 Research session 4: query processing and optimization I: How to evaluate multiple range-sum queries progressively

Rolfe R. Schmidt, Cyrus Shahabi

June 2002 **Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: pdf(2.14 MB) Additional Information: full citation, abstract, references, citings, index terms

Users of decision support system typically submit batches of range-sum queries simultaneously rather than issuing individual, unrelated queries. We propose a wavelet based technique that exploits T/O sharing across a query batch to evaluate the set of queries progressively and efficiently. The challenge is that now controlling the structure of errors across query results becomes more critical than minimizing error per individual query. Consequently, we define a class of structural error penalty ...

20 OLAP and statistical databases: similarities and differences

Arie Shoshani

May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

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1 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

2 Office-by-example: an integrated office system and database manager

Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Khorasani, Ravi Krishnamurthy, Gary Sockut, Paula Sweeney, Vance Waddle, Moshé Zloof

October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(2.86 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

3 Advanced SQL modeling in RDBMS

Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Nathan Folkert, Abhinav Gupta,

John Haydu, Lei Sheng, Sankar Subramanian
March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(279.06 KB) Additional Information: full citation, abstract, references, index terms

Commercial relational database systems lack support for complex business modeling. ANSI SQL cannot treat relations as multidimensional arrays and define multiple, interrelated formulas over them, operations which are needed for business modeling. Relational OLAP (ROLAP) applications have to perform such tasks using joins, SQL Window Functions, complex CASE expressions, and the GROUP BY operator simulating the pivot operation. The designated place in SQL for calculations is the SELECT clause, whi ...

Keywords: Excel, OLAP, analytic computations, spreadsheet

4 Aggregation everywhere: data reduction and transformation in the Phoenix data warehouse
Steven Tolkin
November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, index terms

This paper describes the Phoenix system, which loads a data warehouse and then reports against it. Between the raw atomic data of the source system and the business measures presented to users there are many computing environments. Aggregation occurs everywhere: initial bucketing by the natural keys on the mainframe, loading the fact table using a mapping table, maintaining aggregate tables and reporting tables in the data base, in the GUI, in SQL queries issued on behalf of client tools by ...

Keywords: OLAP, SQL, aggregation, data lineage, data warehouse

5 Query processing techniques in the summary-table-by-example database query language
Gultekin Özsoyoğlu, Victor Matos, Meral Özsoyoğlu
December 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 4
Publisher: ACM Press
Full text available: pdf(3.52 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Summary-Table-by-Example (STBE) is a graphical language suitable for statistical database applications. STBE queries have a hierarchical subquery structure and manipulate summary tables and relations with set-valued attributes. The hierarchical arrangement of STBE queries naturally implies a tuple-by-tuple subquery evaluation strategy (similar to the nested loops join implementation technique) which may not be the best query processing strategy. In this paper we discuss the query ...

6 The Logical Record Access Approach to Database Design
Toby J. Teorey, James P. Fry
June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2
Publisher: ACM Press
Full text available: pdf(2.81 MB) Additional Information: full citation, references, citings, index terms

7

An overview of data warehousing and OLAP technology
Surajit Chaudhuri, Umeshwar Dayal
March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(101.60 KB) Additional Information: full citation, abstract, citings, index terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional on-line transaction processing applications. This paper provides an overview ...

8 Industrial sessions: middle-tier caching: Middle-tier database caching for e-business
Qiong Luo, Sailesh Krishnamurthy, C. Mohan, Hamid Pirahesh, Honguk Woo, Bruce G. Lindsay, Jeffrey F. Naughton
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press
Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache wi ...

9 Heuristic optimization of OLAP queries in multidimensionally hierarchically clustered databases
Dimitri Theodoratos, Aris Tsois
November 2001 **Proceedings of the 4th ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, citings, index terms

On-line analytical processing (OLAP) is a technology that encompasses applications requiring a multidimensional and hierarchical view of data. OLAP applications often require fast response time to complex grouping/aggregation queries on enormous quantities of data. Commercial relational database management systems use mainly multiple one-dimensional indexes to process OLAP queries that restrict multiple dimensions. However, in many cases, multidimensional access methods outperform one-dimensiona ...

10 OLAP and statistical databases: similarities and differences
Arie Shoshani
May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press
Full text available: pdf(1.66 MB) Additional Information: full citation, references, citings, index terms

11 Semantic integrity support in SQL:1999 and commercial (object-)relational database management systems
Can Türker, Michael Gertz

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(345.55 KB) Additional Information: full citation, abstract, citings, index terms

The correctness of the data managed by database systems is vital to any application that utilizes data for business, research, and decision-making purposes. To guard databases against erroneous data not reflecting real-world data or business rules, semantic integrity constraints can be specified during database design. Current commercial database management systems provide various means to implement mechanisms to enforce semantic integrity constraints at database run-time.In this paper, we give ...

Keywords: Constraint enforcement, Object-relational databases, SQL:1999, Semantic integrity constraints

12 Databases: Testing database transactions with AGENDA

Yuetang Deng, Phyllis Frankl, David Chays
May 2005 **Proceedings of the 27th international conference on Software engineering**
Publisher: ACM Press
Full text available: pdf(185.68 KB) Additional Information: full citation, abstract, references, index terms

AGENDA is a tool set for testing relational database applications. An earlier prototype was targeted to applications consisting of a single query and included components for populating a database with data suitable for testing the application, generating inputs to the query, and checking relatively simple aspects of the results of executing the query. This paper describes substantial extensions to AGENDA, allowing it to test transactions with multiple queries and with complex intended behavior. ...

Keywords: database, software testing, transaction

13 Mining relational databases with multi-view learning

Hongyu Guo, Herna L. Viktor
August 2005 **Proceedings of the 4th international workshop on Multi-relational mining MRDM '05**
Publisher: ACM Press
Full text available: pdf(303.96 KB) Additional Information: full citation, abstract, references, index terms

Most of today's structured data resides in relational databases where multiple relations are formed by foreign key joins. In recent years, the field of data mining has played a key role in helping humans analyze and explore large databases. Unfortunately, most methods only utilize "flat" data representations. Thus, to apply these single-table data mining techniques, we are forced to incur a computational penalty by first converting the data into this "flat" form. As a result of this transformati ...

Keywords: aggregation, data mining, multi-relational data mining, multi-view classification, relational database

14 Interoperability of multiple autonomous databases

Witold Litwin, Leo Mark, Nick Roussopoulos
September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3
Publisher: ACM Press
Full text available: pdf(2.66 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database systems were a solution to the problem of shared access to heterogeneous files created by multiple autonomous applications in a centralized environment. To make data usage easier, the files were replaced by a globally integrated database. To a large extent, the idea was successful, and many databases are now accessible through local and long-haul networks. Unavoidably, users now need shared access to multiple autonomous databases. The question is what the corresponding methodology ...

15 Research sessions: indexing and tuning: Transaction support for indexed summary views

Goetz Graefe, Michael Zwilling

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(168.70 KB) Additional Information: full citation, abstract, references

Materialized views have become a standard technique for performance improvement in decision support databases and for a variety of monitoring purposes. In order to avoid inconsistencies and thus unpredictable query results, materialized views and their indexes should be maintained immediately within user transaction just like indexes on ordinary tables. Unfortunately, the smaller a materialized view is, the higher the concurrency contention between queries and updates as well as among concurrent ...

16 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, index terms

17 Industrial papers: query processing: Modeling and querying multidimensional data sources in Siebel Analytics: a federated relational system

Kazi A. Zaman, Donovan A. Schneider

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(401.92 KB) Additional Information: full citation, abstract, references

Large organizations have a multitude of data sources across the enterprise and want to obtain business value from all of them. While the majority of these data sources may be consolidated in an enterprise data warehouse, many business units have their own data marts where analysis is carried out against data stored in multidimensional data structures. It is often critical to pose queries which span both these sources. This is a challenge since these sources have differing models and query langua ...

18 Final report of the ANSI/X3/SPARC DBS-SG relational database task group

July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(4.69 MB) Additional Information: full citation

19 Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

20 Database theory, technology and applications (DTTA): On using collection for aggregation and association relationships in XML object-relational storage

Eric Pardede, J. Wenny Rahayu, David Taniar

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(159.28 KB) Additional Information: full citation, abstract, references, index terms

XML data can be stored in different databases including Object-Relational Database (ORDB). Using ORDB, we get the benefit of the relational maturity and the richness of OO modeling. One modeling concept that can be captured is the collection. Collection structures frequently occur in XML documents especially in two relationship types: aggregation and association. However, very often when the data is stored in a database repository, the collection is flattened. We believe that preserving the coll ...

Keywords: ORDB, XML, XML schema, collection

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